

GNSS REFERENCE INFRASTRUCTURE

GB30

Your local reference base. Your NTRIP service.

An integrated GNSS local reference source and NTRIP Caster in a low-power indoor unit, supplied with an outdoor GNSS antenna kit.



Serve your field clients

256 default simultaneous client terminals

Connect independent sources

1 local + up to 8 uplink reference sources

Plan low-power operation

Typical 1.5 W / full-load 2 W

Fixed indoor GB30 main unit with top-edge connections; GNSS antenna mounted outdoors.

Typical applications

01

Survey & GIS teams

Maintain a fixed correction source for repeat visits and field collection.

02

Agricultural sites

Plan local correction access for compatible field terminals and equipment.

03

Vehicles & robotics

Provide a fixed reference source for compatible positioning clients.

Install the antenna. Set the reference. Connect your clients.

Fixed outdoor GNSS antenna / Indoor GB30 main unit / Selected NTRIP source

Power values apply to the GB30 main unit; allow separately for antenna and network equipment loads.
Application examples require compatible clients and site-specific installation and acceptance checks.

GB30 COMPLETE REFERENCE KIT

GB30

Technical specifications

Correction service & operation

Platform	Low-power ARM processor; touchscreen monitoring
Local Base Station mode	Local reference source + active Caster; accepts independent uplink sources
Uplink Base Station mode	Uploads a local reference source to a bound Caster; own Caster disabled
Default access policy	256 simultaneous clients; up to 8 uplink reference stations
Direct NTRIP maximum	Up to 4,000 simultaneously online with raised limit/configuration. Separate from default policy; not a tunnel concurrency rating.
Reference source model	1 local + up to 8 independent uplink sources. Configure and validate the appropriate mountpoint for each work area.
Network tunnel	No dedicated public IP, port forwarding or dedicated line required. Internet access and compatible client required; capacity to be specified.
Reference coordinates	Survey-in or known fixed coordinates; verify reference frame and antenna reference.
Power consumption	Typical 1.5 W / full-load 2 W

Installation, kit & ordering

Installation	Main unit fixed indoors with stable power; GNSS antenna fixed outdoors with clear sky. Coaxial feed connects to main unit SMA input.
Included complete kit	GB30 main unit; external GNSS antenna; antenna mounting stand; coaxial antenna cable
Separate supply items	Power supply and other installation equipment specified separately
Ordering configuration	Confirm input electrical rating, cable length / connectors, GNSS configuration, dimensions / weight, environmental ratings, firmware, client policy and tunnel compatibility / capacity.

Each mountpoint provides an independent reference stream. Plan station spacing and validate coverage for the operating area. Product images and interface values illustrate typical operation.

Quotation on request. Specify the required kit quantity and network / installation configuration.